



GGAAGTGGCTTCATTTTCAGTGGCTGACTTCCAGAGAGCAAT 41  
 ATGGCTGGTTCCCCAACATGCCTCACCCCTCATCTATATCCTTTGGCAGCTCACAGGGTCA 101  
 M A G S P T C L T L I Y I L W Q L T G S 20  
 GCAGCCTCTGGACCCGTGAAAGAGCTGGTCGGTTCCGTTGGTGGGGCCGTGACTTTCCCC 161  
 A A S G P V K E L V G S V G G A V T F P 40  
 CTGAAGTCCAAAGTAAAGCAAGTTGACTCTATTGTCTGGACCTTCAACACAACCCCTCTT 221  
 L K S K V K Q V D S I V W T F N T T P L 60  
 GTCACCATACAGCCAGAAGGGGGCACTATCATAGTGACCCAAAATCGTAATAGGGAGAGA 281  
 V T I Q P E G G T I I V T Q N R N R E R 80  
 GTAGACTTCCCAGATGGAGGCTACTCCCTGAAGCTCAGCAAACTGAAGAAGAATGACTCA 341  
 V D F P D G G Y S L K L S K L K K N D S 100  
 GGGATCTACTATGTGGGGATATACAGCTCATCACTCCAGCAGCCCTCCACCCAGGAGTAC 401  
 G I Y Y V G I Y S S S L Q Q P S T Q E Y 120  
 GTGCTGCATGTCTACGAGCACCTGTCAAAGCCTAAAGTCACCATGGGTCTGCAGAGCAAT 461  
 V L H V Y E H L S K P K V T M G L Q S N 140  
 AAGAATGGCACCTGTGTGACCAATCTGACATGCTGCATGGAACATGGGGAAGAGGATGTG 521  
 K N G T C V T N L T C C M E H G E E D V 160  
 ATTTATACCTGGAAGGCCCTGGGGCAAGCAGCCAATGAGTCCCATATGGGTCCATCCTC 581  
 I Y T W K A L G Q A A N E S H N G S I L 180  
 CCCATCTCTGGAGATGGGGAGAAAGTGATATGACCTTCATCTGCGTTGCCAGGAACCTT 641  
 P I S W R W G E S D M T F I C V A R N P 200  
 GTCAGCAGAACTTCTCAAGCCCCATCCTTGCCAGGAAGCTCTGTGAAGGTGCTGTGAT 701  
 V S R N E S S P I L A R K L C E G A A D 220  
 GACCCAGATTCTCCATGGTCTCTCTGTCTCTCTGTGGTGGCCCTCCTGCTCAGTCTC 761  
 D P D S S M V L L C L L L V P L L L S L 240  
 TTTGTAAGTGGGCTATTCTTTGGTTTCTGAAGAGAGAGACAAGAAGAGTACATTGAA 821  
F V L G L F L W F L K R E R Q E E Y I E 260  
 GAGAAGAAGAGAGTGGACATTTGTGGGAAACTCCTAACATATGCCCCATTCTGGAGAG 881  
 E K K R V D I C R E T P N I C P H S G E 280  
 AACACAGAGTACGACACAATCCCTCACACTAATAGAACAATCCTAAAGGAAGATCCAGCA 941  
 N T E Y D T I P H T N R T I L K E D P A 300  
 AATACGGTTTACTCCACTGTGGAATACCGAAAAAGATGGAAAAATCCCACTCACTGCTC 1001  
 N T V Y S T V E I P K K M E N P H S L L 320  
 ACGATGCCAGACACCAAGGCTATTTGCCTATGAGAATGTTATCTAGACAGCAGTGCAC 1061  
 T M P D T P R L F A Y E N V I \* 335  
 TCCCTAAGTCTCTGCTCAAAAAAACAATTCTCGGCCCAAGAAAAACAATCAGAAGA 1121  
 ATTCAGTATTTGACTAGAAACATCAAGGAAGAATGAAGAACGTGACTTTTTTCCAGGA 1181  
 TAAATTATCTCTGATGCTCTTTAGATTAAAGAGTTCGTAATCCATCCACTGCTGAGAA 1241  
 ATCTCTCAAAACCAGAAGGTTTAACTACTTCATCCAAAAATGGGATTGTGAATGTCAG 1301  
 CAAACCATAAAAAAAGTGCTTAGAAGTATTCCTATAGAAATGTAAATGCAAGGTCACACA 1361  
 TATTAATGACAGCCTGTTGTATTAATGATGGCTCCAGGTCAGTGTCTGGAGTTTCATTCC 1421  
 ATCCAGGGCTTGGATGTGAGGATATACCAAGAGTCTTGCTACCAGGAGGGCAAGAAGA 1481  
 CCAAAACAGACAGACAAGTCCAGCAGAAGCAGATGCACCTGACAAAAATGGATGTATTAA 1541  
 TTGGCTCTATAAACTATGTGCCAGCACTATGCTGAGCTTACACTAATTGGTCAGACGTG 1601  
 CTGTCTGCCCTCATGAAATTGGCTCCAAATGAATGAATGACTTTTCATGAGCAGTTGTAGC 1661  
 AGGCCTGACCACAGATTCCAGAGGGCCAGGTGTGGATCCACAGGACTTGAAGGTCAAAG 1721  
 TTCACAAAGATGAAGAATCAGGGTAGCTGACCATGTTTGGCAGATACTATAATGGAGACA 1781  
 CAGAAGTGTGCATGGCCCAAGGACAAGGACCTCCAGCCAGGCTTCATTATGCACTTGTG 1841  
 CTGCAAAAGAAAAGTCTAGGTTTTAAGGCTGTGCCAGAACCCATCCCAATAAGAGACCG 1901  
 AGTCTGAAGTCACATTGTAATCTAGTGTAGGAGACTTGGAGTCAGGCAGTGTAGACTGGT 1961  
 GGGGACCGGGGGCAGTGGGTACTTGTAAACCTTTAAAGATGGTTAATTCATTCAATAGA 2021  
 TATTTATTAAGAACCTACTATGCGGCCCGCATGGTGGCTCACACCTGTAATCCAGCAC 2081  
 TTTGGGAGGCCAAGGTGGGTGGGTCTATCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAA 2141  
 CATGCTGAAACCCATCTCTACTAAAGATCAAAATTTGCTGAGCGTGGTGGTGTGCACCT 2201

FIGURE 2

1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

**FIGURE 2 (continued)**

CCATCCTAATACGACTCACTATAGGGCTCGAGCGGCCGCCGGGCAGGTTTCAAGTTCCA  
 1 -----+-----+-----+-----+-----+-----+-----+  
  
 CGTTCCTACTGCTAAGAGTCTTAGCTTACAAAAGATATTCTTGTAAGCCAAGTGTAAG  
 61 -----+-----+-----+-----+-----+-----+-----+  
  
 TTAATCACGACAACCAAGGTTTGCTAACATAGAGGAAGAGCTCTCATCAATAGGGGAAC  
 121 -----+-----+-----+-----+-----+-----+-----+  
  
 AGAAAGTCTCAGCGACAAGCTTATGAAAGAATGGCTGTCTCAAGGGCTCCAACACCCGAC  
 181 -----+-----+-----+-----+-----+-----+-----+  
  
 M A V S R A P T P D  
  
 TCCGCCTGTCAGAGGATGGTCTGGCTCTTTCCACTTGTCTTCTGCCTCGGCTCAGGGAGT  
 241 -----+-----+-----+-----+-----+-----+-----+  
  
 S A C Q R M V W L F P L V F C L G S G S  
  
 GAAGTTTCACAGAGCAGCTCAGACCCCCAGCTAATGAATGGCGTTCTAGGAGAGTCTGCA  
 301 -----+-----+-----+-----+-----+-----+-----+  
  
 E V S Q S S S D P Q L M N G V L G E S A  
  
 GTTCTTCCTCTAAAGCTTCCTGCAGGAAGATAGCCAATATCATCATCTGGAATTATGAA  
 361 -----+-----+-----+-----+-----+-----+-----+  
  
 V L P L K L P A G K I A N I I I W N Y E  
  
 TGGGAAGCGTCACAAGTCACTGCCCTCGTTATCAACCTAAGTAATCCTGAAAGTCCACAA  
 421 -----+-----+-----+-----+-----+-----+-----+  
  
 W E A S Q V T A L V I N L S N P E S P Q  
  
 ATCATGAACACTGATGTAAAGAAGAGACTGAACATCACCCAGTCCTACTCCCTGCAAATC  
 481 -----+-----+-----+-----+-----+-----+-----+  
  
 I M N T D V K K R L N I T Q S Y S L Q I  
  
 AGCAACCTTACCATGGCAGACACAGGATCATACACTGCGCAGATAACCACAAAGGACTCT  
 541 -----+-----+-----+-----+-----+-----+-----+  
  
 S N L T M A D T G S Y T A Q I T T K D S  
  
 GAAGTGATCACCTTCAAATATATTCTGAGGGTCTTTGAACGATTGGGTAACCTAGAAACT  
 601 -----+-----+-----+-----+-----+-----+-----+  
  
 E V I T F K Y I L R V F E R L G N L E T

**FIGURE 3**

ACCAACTATACTCTCCTGCTAGAGAATGGGACCTGCCAGATACACCTGGCCTGTGTTTTG  
 661 -----+-----+-----+-----+-----+-----+  
 T N Y T L L L E N G T C Q I H L A C V L  
  
 AAGAATCAAAGTCAAACGTCTCAGTTGAGTGGCAAGCCACAGGAAACATCTCTTTAGGA  
 721 -----+-----+-----+-----+-----+-----+  
 K N Q S Q T V S V E W Q A T G N I S L G  
  
 GGACCAAATGTCACTATCTTTTGGGACCCGAGGAATTCTGGTGACCAGACTTACGTCTGC  
 781 -----+-----+-----+-----+-----+-----+  
 G P N V T I F W D P R N S G D Q T Y V C  
  
 AGAGCCAAGAATGCTGTCAGCAATTTGTCAGTCTCTGTTTCGACCCAGAGTCTCTGCAAA  
 841 -----+-----+-----+-----+-----+-----+  
 R A K N A V S N L S V S V S T Q S L C K  
  
 GGGGTTCTAACTAATCCACCCTGGAATGCAGTATGGTTTATGACTACAATTTCAATAATC  
 901 -----+-----+-----+-----+-----+-----+  
 G V L T N P P W N A V W F M T T I S I I  
  
 AGTGCAGTCATACTCATCTTTGTGTGCTGGAGCATAACATGTTTGAAGAGAAGAGGTTCT  
 961 -----+-----+-----+-----+-----+-----+  
 S A V I L I F V C W S I H V W K R R G S  
  
 CTCCTTTGACTAGCCAACATCCAGAGTCCTCCCAGAGCACAGATGGCCCAGGCTCTCCA  
 1021 -----+-----+-----+-----+-----+-----+  
 L P L T S Q H P E S S Q S T D G P G S P  
  
 GGGAACACTGTGTATGCACAAGTCACTCGTCCAATGCAGGAAATGAAAATCCCAAACCT  
 1081 -----+-----+-----+-----+-----+-----+  
 G N T V Y A Q V T R P M Q E M K I P K P  
  
 ATCAAAAATGACTCCATGACAATTTACTCCATAGTTAATCATTCCAGAGAGGAAACAGTG  
 1141 -----+-----+-----+-----+-----+-----+  
 I K N D S M T I Y S I V N H S R E E T V  
  
 GCTTTAACCGGCTATAACCAACCCATTACCCTGAAGGTTAACACTTTAATCAACTATAAC  
 1201 -----+-----+-----+-----+-----+-----+  
 A L T G Y N Q P I T L K V N T L I N Y N  
  
 TCCTGAAGGAAGAGCACTGCAGTGACTTGAGGAAATTAAACAATGCTGTACCCACAGCTC  
 1261 -----+-----+-----+-----+-----+-----+  
 S \*

FIGURE 3 (continued)



# DISEASE

### FIGURE 4

AGCTGGCGACGGGAGACAACCATGGACTTTGGTATGGAACCACACAGCCTCTTCACAGAC  
 601 -----+-----+-----+-----+-----+  
 S W R R E T T M D F G M E P H S L F T D

GGACAGGTGCTGAGCATTTCCTGGGACCAGGAGACAGAGATGTGGCCTATTCTGCATT  
 661 -----+-----+-----+-----+-----+  
 G Q V L S I S L G P G D R D V A Y S C I

GTCTCCAACCCTGTCAGCTGGGACTTGGCCACAGTCACGCCCTGGGATAGCTGTCATCAT  
 721 -----+-----+-----+-----+-----+  
 V S N P V S W D L A T V T P W D S C H H

GAGGCAGCACCAGGGAAGGCCTCCTACAAAGATGTGCTGCTGGTGGTGGTGCCTGTCTCG  
 781 -----+-----+-----+-----+-----+  
 E A A P G K A S Y K D V L L V V V P V S

CTGCTCCTGATGCTGGTTACTCTCTTCTCTGCCTGGCACTGGTGGCCCTGCTCAGGGAAA  
 841 -----+-----+-----+-----+-----+  
 L L L M L V T L F S A W H W C P C S G K

AAGAAAAAGGATGTCCATGCTGACAGAGTGGGTCCAGAGACAGAGAACCCCTTGTGCAG  
 901 -----+-----+-----+-----+-----+  
 K K K D V H A D R V G P E T E N P L V Q

GATCTGCCATAAAGGACAATATGAACTGATGCCTGGACTATCAGTAACCCCACTGCACAG  
 961 -----+-----+-----+-----+-----+  
 D L P \*

GCACACGATGCTCTGGGACATAACTGGTGCCTGGAAATCACCATGGTCCTCATATCTCCG  
 1021 -----+-----+-----+-----+-----+  
 -----+-----+-----+-----+-----+

ATGGGAATCCTGTCCTGCCTCGAAGGAGCAGCCTGGGCAGCCATCACACCACGAGGACAG  
 1081 -----+-----+-----+-----+-----+  
 -----+-----+-----+-----+-----+

GAAGCACCAGCACGTTTCACACCTCCCCCTTCCCTCTCCCATCTTCTCATATCCTGGCTC  
 1141 -----+-----+-----+-----+-----+  
 -----+-----+-----+-----+-----+

TTCTCTGGGCAAGATGAGCCAAGCAGAACATTCCATCCAGGACACTGGAAGTTCTCCAGG  
 1201 -----+-----+-----+-----+-----+  
 -----+-----+-----+-----+-----+

FIGURE 4 (continued)





00000000 " 99999999

M	A	G	S	P	T	C	L	T	L	I	Y	I	L	W	Q	L	T	G	S
A	A	S	G	P	V	K	E	L	V	G	S	V	G	G	A	V	T	F	P
L	K	S	K	V	K	Q	V	D	S	I	V	W	T	F	N	T	T	P	L
V	T	I	Q	P	E	G	G	T	I	I	V	T	Q	N	R	N	R	E	R
V	D	F	P	D	G	G	Y	S	L	K	L	S	K	L	K	K	N	D	S
G	I	Y	Y	V	G	I	Y	S	S	S	L	Q	Q	P	S	T	Q	E	Y
V	L	H	V	Y	E	H	L	S	K	P	K	V	T	M	G	L	Q	S	N
K	N	G	T	C	V	T	N	L	T	C	C	M	E	H	G	E	E	D	V
I	Y	T	W	K	A	L	G	Q	A	A	N	E	S	C	N	G	S	I	L
P	I	S	W	R	W	G	E	S	D	M	T	F	I	C	V	A	R	N	P
V	S	R	N	F	S	S	P	I	L	A	R	K	L	C	E	G	A	A	D
D	P	D	S	S	M	V	L	L	C	L	L	E	V	P	L	L	S	S	L
F	V	L	G	L	F	L	W	F	L	K	R	N	R	Q	E	E	Y	I	E
E	K	K	R	V	D	I	C	R	E	T	P	R	I	C	P	H	S	G	E
N	T	V	Y	D	T	I	P	H	T	N	K	M	I	L	K	H	D	P	A
T	M	P	D	T	P	R	L	F	A	Y	E	N	V	I	*		S	L	L

FIGURE 5



M	V	M	R	P	L	W	S	L	L	L	W	E	A	L	L	P	I	T	V	T	G
A	Q	V	L	S	K	V	G	G	S	V	L	L	V	A	A	R	P	P	G	F	Q
V	R	E	A	I	W	R	S	L	W	P	S	E	E	L	L	A	T	F	F	R	G
S	L	E	T	L	Y	H	S	R	F	L	G	R	A	Q	L	H	S	N	L	S	L
E	L	G	P	L	E	S	G	D	S	G	N	F	S	V	L	M	V	D	T	R	G
Q	P	W	T	Q	T	L	Q	L	K	V	Y	D	A	V	P	R	P	V	V	Q	V
F	I	A	V	E	R	D	A	Q	P	S	K	T	C	Q	V	F	L	S	C	W	A
P	N	I	S	E	I	T	Y	S	W	R	R	E	T	T	M	D	F	G	M	E	P
H	S	L	F	T	D	G	Q	V	L	S	I	S	L	G	P	G	D	R	D	V	A
Y	S	C	I	V	S	N	P	V	S	W	D	L	A	T	V	T	P	W	D	S	C
H	H	E	A	A	P	G	K	A	S	Y	K	D	V	L	L	V	V	V	P	V	S
L	L	L	M	L	V	T	L	F	S	A	W	H	W	C	P	C	S	G	K	K	K
K	D	V	H	A	D	R	V	G	P	E	T	E	N	P	L	V	Q	D	L	P	*

### FIGURE 7

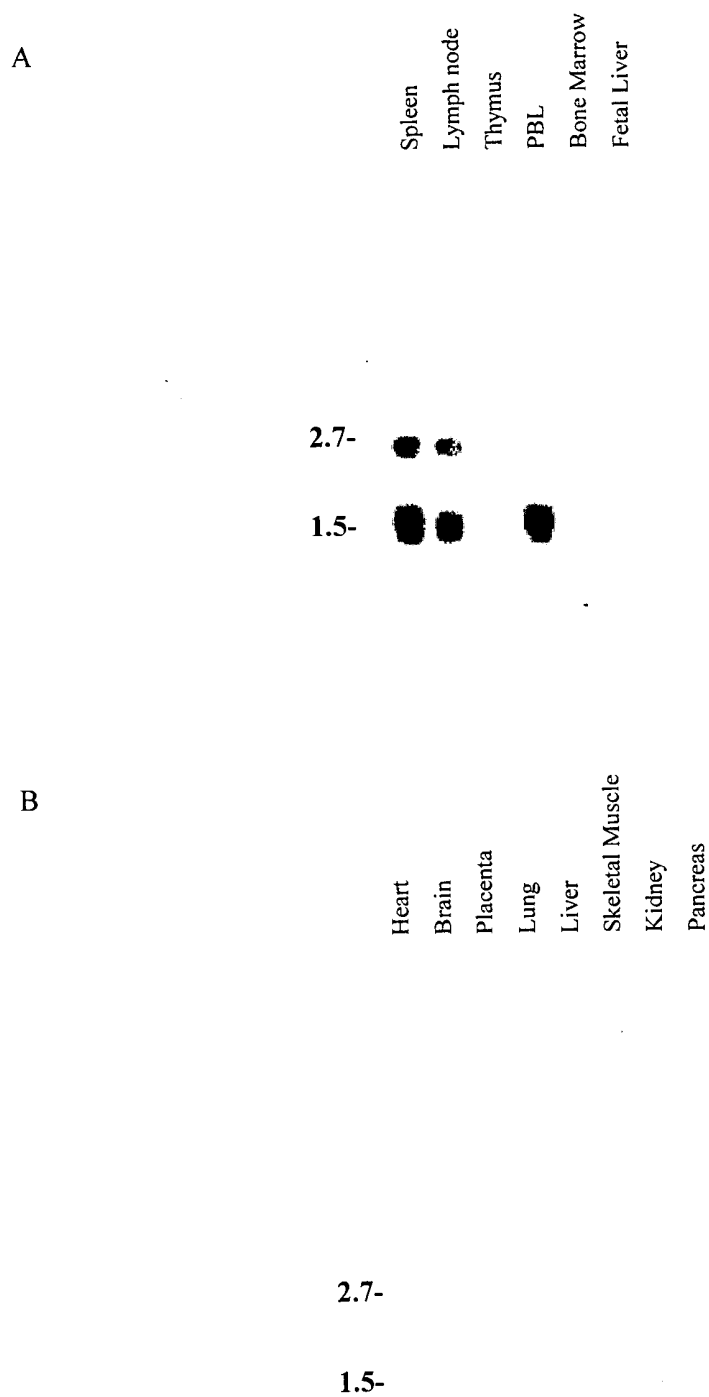


FIGURE 8

# *Tissue Distribution of Apex1 Expression*

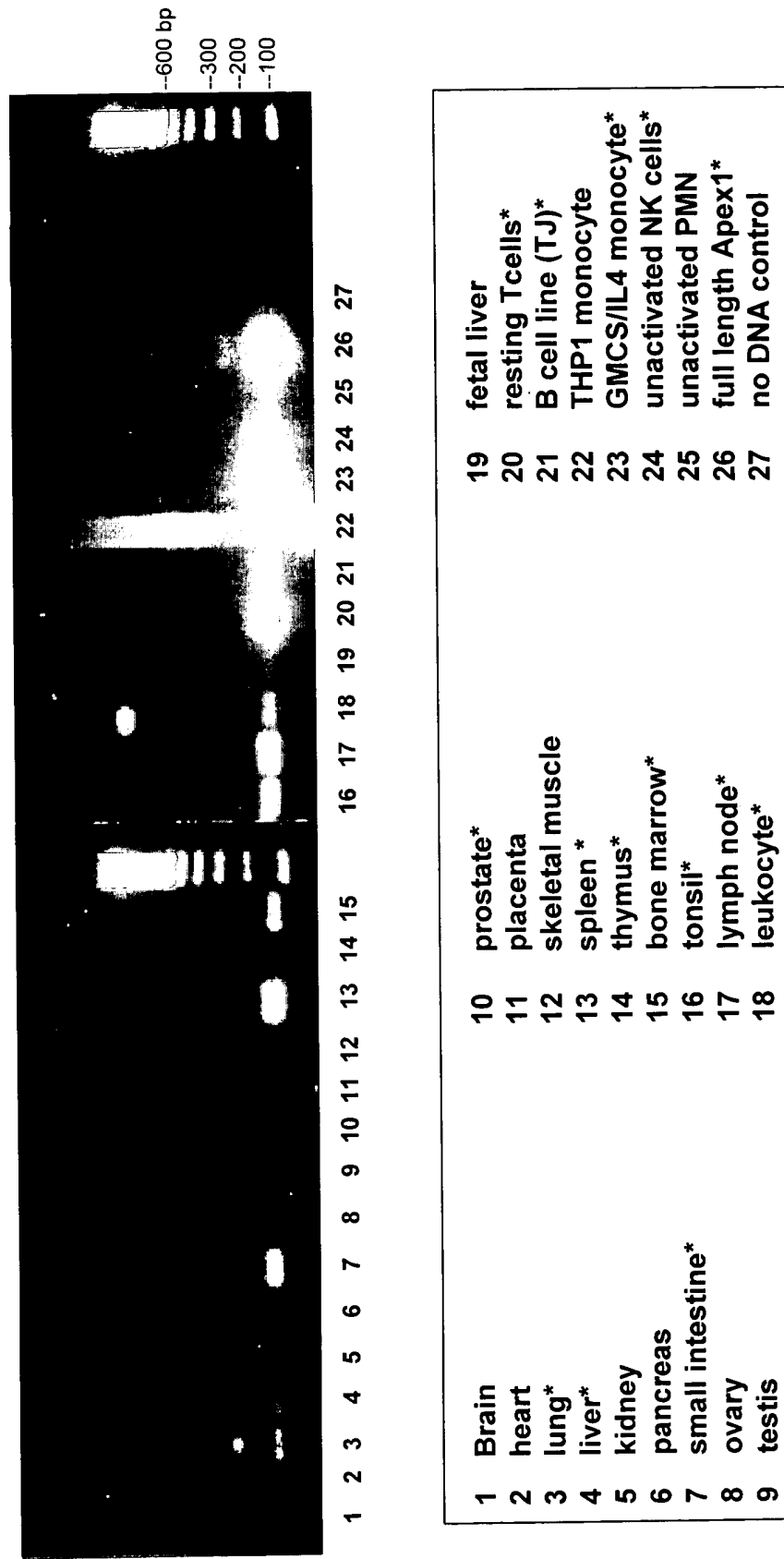


FIGURE 9

1. *What is the purpose of the study?*  
 2. *What are the research objectives?*  
 3. *What is the research methodology?*  
 4. *What are the results of the study?*  
 5. *What are the conclusions of the study?*  
 6. *What are the limitations of the study?*  
 7. *What are the implications of the study?*  
 8. *What are the future research directions?*  
 9. *What are the contributions of the study?*  
 10. *What are the key findings of the study?*  
 11. *What are the main results of the study?*  
 12. *What are the primary outcomes of the study?*  
 13. *What are the secondary outcomes of the study?*  
 14. *What are the tertiary outcomes of the study?*  
 15. *What are the quaternary outcomes of the study?*  
 16. *What are the quinary outcomes of the study?*  
 17. *What are the senary outcomes of the study?*  
 18. *What are the septenary outcomes of the study?*  
 19. *What are the octenary outcomes of the study?*  
 20. *What are the nonary outcomes of the study?*  
 21. *What are the decenary outcomes of the study?*  
 22. *What are the undecenary outcomes of the study?*  
 23. *What are the duodecenary outcomes of the study?*  
 24. *What are the tredecenary outcomes of the study?*  
 25. *What are the quattuordecenary outcomes of the study?*  
 26. *What are the quindecenary outcomes of the study?*  
 27. *What are the sexdecenary outcomes of the study?*  
 28. *What are the septendecenary outcomes of the study?*  
 29. *What are the octodecenary outcomes of the study?*  
 30. *What are the nonodecenary outcomes of the study?*  
 31. *What are the vigintenary outcomes of the study?*  
 32. *What are the unvigintenary outcomes of the study?*  
 33. *What are the duovigintenary outcomes of the study?*  
 34. *What are the duodevigintenary outcomes of the study?*  
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 37. *What are the quindecavigintenary outcomes of the study?*  
 38. *What are the sexdecavigintenary outcomes of the study?*  
 39. *What are the septendecavigintenary outcomes of the study?*  
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 78. *What are the duodevigintivigintivigintivigintivigintenary outcomes of the study?*  
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 82. *What are the sexdecavigintivigintivigintivigintivigintenary outcomes of the study?*  
 83. *What are the septendecavigintivigintivigintivigintivigintenary outcomes of the study?*  
 84. *What are the octodecavigintivigintivigintivigintivigintenary outcomes of the study?*  
 85. *What are the nonodecavigintivigintivigintivigintivigintenary outcomes of the study?*  
 86. *What are the vigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 87. *What are the unvigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 88. *What are the duovigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 89. *What are the duodevigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 90. *What are the tredecavigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 91. *What are the quattuordecavigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 92. *What are the quindecavigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 93. *What are the sexdecavigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 94. *What are the septendecavigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 95. *What are the octodecavigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 96. *What are the nonodecavigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 97. *What are the vigintivigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 98. *What are the unvigintivigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 99. *What are the duovigintivigintivigintivigintivigintivigintivigintenary outcomes of the study?*  
 100. *What are the duodevigintivigintivigintivigintivigintivigintivigintenary outcomes of the study?*

**Bold-** Predicted signal sequence, which will be cleaved in mature protein    HP - junction sequence resulting from the BamH1 enzyme site.

**FIGURE 10**

**Peptides in APEX-2mIg**

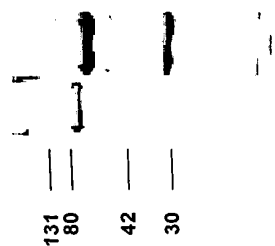
1 **MAVSRAPTPD SACQRMVWLF PLVFCLGSGS** EVSQSSSDPQ LMNGVLGESA  
51 VLPLKLPAGK IANIIIWNYE WEASQVTALV INLSNPESPQ IMNTDVKKRL  
101 NITQSYSLQI SNLTMA DTGS YTAQITTKDS EVITFKYILR VFERLGNLET  
151 TNYTLLLENG TCQIHLACVL KNQSQTVSVE WQATGNISLG GPNVTIFWDP  
201 RNSGDQTYVC RAKNAVS NLS VSVSTQSLCK GVL TNPPW HP - murine  
IgG2a H-Ch2-CH3

**Bold-** Predicted signal sequence, which will be cleaved in the mature protein HP - junction sequence resulting from the BamH1 enzyme site.

**FIGURE 11**



Apex-2mlg  
Apex-1lg



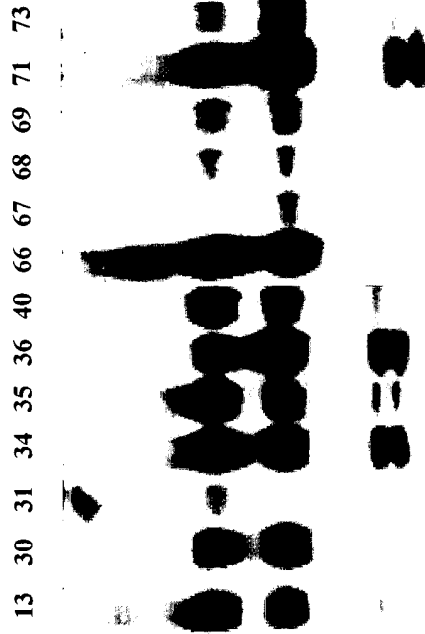
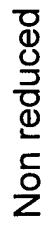
**FIGURE 12**



**FIGURE 13**

## Apex1 Antibody Panel

13 30 31 34 35 36 40 66 67 68 71 73



## FIGURE 14

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MPMGSLSQPLATLYLLGMLVASCLG sequence from human CD5 signal peptide,  
DYKDDDDK is the FLAG peptide

**FIGURE 15**

The following table shows the results of the regression analysis for the dependent variable *Perceived Organizational Support*. The independent variables are *Organizational Commitment* and *Organizational Identification*. The table includes the regression coefficients, standard errors, t-statistics, and p-values for each variable.

MPMGSLQPLATLYLLGLVASC LG sequence from human CD5 signal peptide,  
DYKDDDDDK is the FLAG peptide

**FIGURE 16**